

PROJECT NUMBER: 1333
PROJECT TITLE: Semiworks Process Control
PROJECT LEADER: D. A. Phan
PERIOD COVERED: October, 1988

A. Objective: Evaluate and revise the process control and data acquisition system to improve processing performance and production quality.

B. Results:

Hauni HT Steam Tunnel Installation (Oliver) - Continue to support Dr. Cho's program to evaluate the Hauni steam tunnel. Modifications to the weighbelt at the inlet of the tunnel will be performed to increase its speed and reduce tobacco bed depth. This is to provide better tobacco feed to the tunnel. Other instruments will be installed to monitor the spray steam temperature and pressure, and tobacco temperature at the discharge of the tunnel and the inlet of the Adt dryer.

Temperature Control System for Scandia Overwrappers (Osmalov/Phan/Sims) A temperature control system and most of the mechanical modifications were installed on one of the Scandia overwrappers at the Stockton St. plant on 10/8. Other mechanical modifications are planned to be done by 11/15. Pack-seal quality improvement will then be evaluated by factory personnel.

Second Aftercut Flavor Cylinder (Phan/Sims) - The Fenwal fire and explosion suppression system for the cylinder was installed and checked out. Electrical and control installation for the flavor system and associated conveyors began on 11/7. The system will be checked out the week of 11/14.

Vacuum Conditioner Data Highway Connection (Sims) - Work is underway to connect a Provox data highway to the stand-alone Provox system at the vacuum conditioner panel. This will allow better maintenance control of software from the central system, and opportunity of trending some important process variables at that location. The project is planned to be completed by November 30, 1988.

Automatic Damper System for the Adt Dryer (Sims) - Work is underway to provide an automatic system to allow remote switching of the inlet and exhaust air dampers from the control room for co-current or counter-current air flow modes. The project is planned to be completed by December 15, 1988.

C. Plans - Complete the checkout of the second aftercut flavor system, and the data highway for the vacuum conditioner control system. Complete the installation of all remaining items to support the Hauni steam tunnel evaluation program. Continue the development of the Onspec control software and qualification of the Computrac moisture analyzers. Continue providing electrical plant engineering support to the Semiworks and conduct routine QA functions.